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10 FUNDAMENTALS OF METAL CASTING

Review Questions

- 10.1 Identify some of the important advantages of shape casting processes.
Answer: Advantages include: (1) complex part geometries are possible; (2) some casting operations are net shape processes, meaning that no further manufacturing operations are needed to accomplish the final part shape; (3) very large parts are possible; (4) they are applicable to any metal that can be melted; and (5) some casting processes are suited to mass production.
- 10.2 What are some of the limitations and disadvantages of casting?
Answer: Disadvantages include: (1) limitations on mechanical strength properties; (2) porosity; (3) poor dimensional accuracy; (4) safety hazards due to handling of hot metals; and (5) environmental problems.
- 10.3 Name the two basic mold types that distinguish casting processes.
Answer: The two mold types are (1) expendable molds and (2) permanent molds.
- 10.4 Which casting process is the most important commercially?
Answer: Sand casting is the most important casting process.
- 10.7 What is the difference between a pattern and a core in sand casting?
Answer: The pattern determines the external shape of the cast part, while a core determines its internal geometry if the casting includes a cavity.
- 10.8 What is meant by the term superheat?
Answer: Superheat is the temperature difference above the melting point at which the molten metal is

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